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(54) PURIFICATION OF GRANULOCYTE-MACROPHAGE COLONY STIMULATING FACTOR

(57)Abstract:

PURPOSE: To rapidly and efficiently purify a granulocyte-macrophage colony stimulating factor (GM-CSF) by dissolving a microorganism capable of producing the GM-CSF, then solubilizing the GM-CSF present in an insoluble substance and oxidizing the GM-CSF in the presence of a reducing agent.

CONSTITUTION: A microorganism capable of producing a granulocyte- macrophage colony stimulating factor (GM-CSF) is dissolved and an insoluble substance containing the GM-CSF is separated from a soluble proteinaceous substance. The GM-CSF present in the insoluble substance is then solubilized with a chaotropic agent and the solubilized GM-CSF is subsequently oxidized in the presence of a reducing agent. An incorrectly folded GM-CSF is then precipitated to selectively separate the correctly folded GM-CSF from the incorrectly folded GM-CSF. Thereby, the purified GM-CSF is recovered from the solution.

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